

July 11, 2008

ITS Team Members,

Workstation – NRCS – Garmin GPS Map76 and Map76S Firmware Upgrade 4.00

Garmin GPS Map76 and Map76S Firmware Upgrade 4.00 is a firmware upgrade available for the Garmin GPS Map76 and Map76S receivers. Many NRCS field locations do not have a uniform version of the firmware installed. The new firmware specifically allows the receiver to optimize use of the FAA Wide Area Augmentation Service (WAAS) as a differential correction service. The update also corrects differential signal processing delays and NMEA sentence integration.

This software should only be uploaded to the unit for which it is intended. If this software is uploaded to a GPS unit other than the product it is designed for, it will render the unit inoperative.

The Map76 Ver. 4.00 firmware is available at:

http://www8.garmin.com/support/download_details.jsp?id=153

The Map76S Ver. 4.00 firmware is available at:

http://www8.garmin.com/support/download_details.jsp?id=155

The firmware upgrade consists of a self-extracting zipped file. Service Center agencies will notify their GPS users the new firmware is available. The above files do not require administrative rights to install. The GPS users can install the firmware upgrade as a regular user. It will also require the Garmin Map76 or Map76S receiver(s) and a Garmin/PC interface cable. The following installation instructions are from the above websites. Users should complete the upgrade themselves, but we are providing the instructions for your reference, in case you need to assist the user.

Installation Instructions

1. It is recommended that you disable screen savers or other programs running on your PC while you go through the update process. Disruptions to the update process may render your GPS inoperable. If the transfer is interrupted, turn off the GPS and then turn it back on. Reboot your PC, go to step #9 and attempt the download again. GARMIN is not responsible for failed downloads of operating software to the GPS and factory resetting the GPS unit will fall under GARMIN's Flat Rate Repair Policy.

2. Click on "Download" and choose to save the file to your computer.
3. Choose a location where you can easily locate the file by saving it to a location such as the C:\temp.
4. Once the download is complete, go to the location where you saved the file.
5. Locate the downloaded file and double-click on it (GPSMAP76_400.exe or GPSMAP76S_400.exe). This will launch the Win-Zip Self Extractor. This program compresses the data to allow for a faster download of the needed files.
6. A program window will appear asking you where to "Un-zip" the files. This is by default C:\Garmin. Change the folder to C:\temp\Garmin
7. Click on the button labeled "Un-zip".
8. Once the un-zip process is complete, click on the "Close" button to exit the Win-Zip Self Extractor.
9. Open the C:\temp\Garmin, locate the file named "Updater" and double click on it.
10. Connect your GPS to your computer using a GARMIN PC Interface cable to an open serial port. Turn the GPS on, place it in Simulator mode (refer to your owner's manual for instructions) and verify that the Interface Mode (found under the Main Menu page, refer to your owner's manual for instructions) is set to GARMIN, GRMN, GRMN/GRMN, or Data Transfer/Host mode.
11. Click on the "OK" button on the Updater program window to start the data transfer.

TSD Action Items:

- The agency and TSD should work closely together to ensure the software is installed on individual GPS units as needed. If users cannot install the firmware upgrade, TSD staff will need to install using administrative rights.

Project Reference:

- RFC #7275 - SCR #2678

Point of Contact:

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